## Operating Instructions.



- Spheros 42 HD
- Spheros 42 HD/DR+

TV.



LOEWE.

## **Contents**

Remote operation – TV functions	s 3	Radio mode	16	Available accessories
		Teletext mode	17	
Connections Signal Box	4			Secret code
		LOEWE Dialog	18	
Operation on the Signal Box	5			Service addresses
		Operation of additional equipment	19-27	
Setup	6-7	Video mode	19	Codelist
Installation possibilities	6	Logging in equipment	20	
For your safety	6-7	Connecting VCR equipment	20	
Tilting Spheros wall unit	7	Search for and store the VCR station	20	
Please note	7	Video playback	21	
Setup and cleaning	7	Calling an AV program in the		
		AV selection list	21	
Initial installation	8	IR-Link	21	
Batteries	8	DVD player	22	
Connection	8	Digital output	22	
Switching on	8	Digital input/output	22	
3		Connecting Loewe sound systems	23	
Daily handling	9-12	Converting the remote control in order	to	
Menu functions in TV	9	operate a Loewe DVD player or devices		
Rotating the TV set	9	from other manufacturers	24-25	
Remote control RC3	10			
TV equipment	10	Loewe sound systems Certos /		
Use the drive buttons in TV- and STE	3 position	Concertos and Spheros	26-27	
for VCR, DVD or Digital Recorder	10	•		
Switching on/off	10	Viewing angle range of rotation	28	
Changing channels	11	3 3 3		
General menu operation	12	Displaying PC images	29	
Adjusting the sound	12	Connecting personal computers	29	
Adjusting the picture	12	31		
Operation on the TV set	12	What to do when	30-31	
Modes of operation	13-17	Technical data	32	
TV mode	13			DIGITAL
Picture in Picture (PIP)	14			Manufactured under license from Do
EPG mode	15			I shows to rise "Dolby" and the double

#### Dear Customer,

Congratulations on your purchase of this high quality Loewe television. Loewe stands for innovative design, excellent quality and exceptional functionality. To ensure that your product retains these properties for as long as possible, please follow the operating and safety instructions contained in this manual.

This instruction manual will help you to get started.

Your Loewe Team

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33

33

34

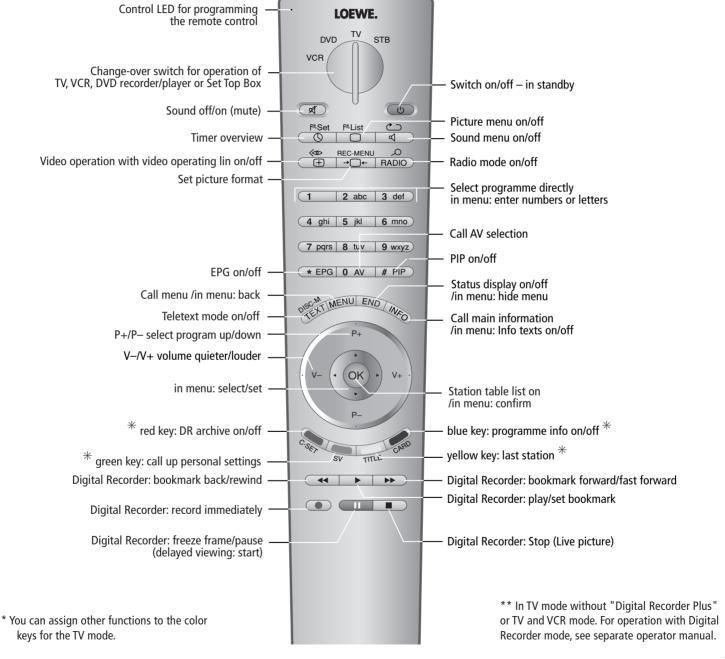
35-41

#### dts

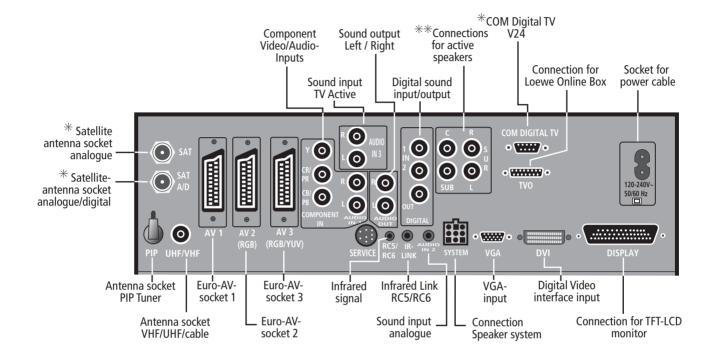
Is a registered trademark of Digital Theater Systems Inc.

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## Remote operation – TV functions



## **Connections Signal Box**

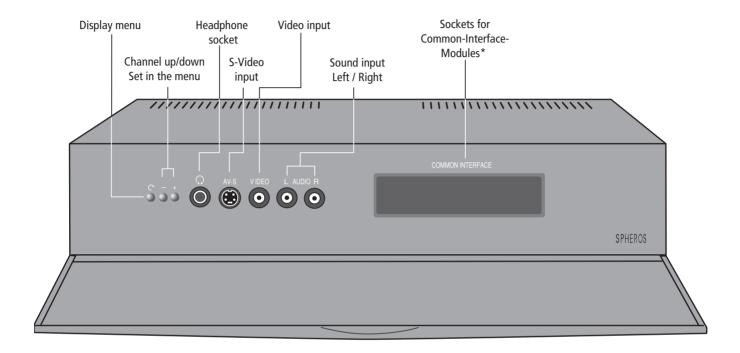


Note: For optimum picture resolution use the "Digital Visual Interface Input DVI" Only connecting cables less than 2 meters long.

<sup>\*</sup> Only with upgrade "Digital-TV upgrade kit 2 Sat/Twin-Sat CI" or CIP

<sup>\*\*</sup> Only with upgrade with Dolby Digital (AC3)

## **Operation on the signal box**



<sup>\*</sup> Only with upgrade "Digital-TV upgrade kit 2 Sat/Twin-Sat CI" or CIP

## **Setup**

## **Installation possibilities**

The Spheros comes in several design versions:

- The Standing unit
   Swiveling bass booster as well as a subwoofer integrated with a stand.
- The desk unit
   You can easily align the stand/desk unit by
   controlling its motor drive by means of the
   remote control.
- **The Wall unit**, which you can hang on the wall, just like a picture. You can tilt the flat panel screen (Plasma display) within a range of 0 to 12°.
- Spheros Plasma screen and Rack System Cube 1/2 Spheros 42 HD Wallmount

With motor drive for rotating the plasma screen and drawers for the Signal Box and video recorder, DVD player etc.

You can connect add-on devices, such as video recorder, DVD player, Pay-TV decoder, Loewe sound systems, a Loewe OnlinePlus-Box or a Multimedia kit to the Spheros Signal Box.

#### Operation

We have designed the TV set in such a way that it is easy to operate with menus. If you need information on operating the set, simply press the i key on the remote control to display the help texts, which will quickly enable you to understand the system.

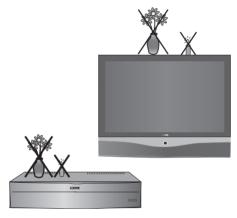
If it is a matter of operating the TV, you can access a function directly from the index. This saves you from having to read through detailed operating instructions and is the reason, why this operating manual only explains the most important operating steps.

## For your safety...

For your own safety and to avoid any unnecessary damage to your unit, please protect it from ...

- · humidity, water sprays and droplets
- · impacts and mechanical stresses
- cold, heat and heavy temperature variations
- dust
- cover allowing poor ventilation
- · intervention inside the unit

Do not place vases filled with water, lighted candles etc. on the top of the TV set.



If you have brought the unit from a cold environment into a warm room, let it remain switched off for about an hour, as condensation may form on the set.

Take the swivel range into account when positioning a TV set with rotary motor unit and do not place any objects such as flower vases etc. in this area.

Lightning strikes may damage your TV set through the antenna and the mains power circuit. Pull out the antenna and mains plugs from their respective connecting sockets during bad weather and long periods of absence.

## Transport the TV set only in vertical position.

- Avoid metal parts, needles, paper clips, liquids, wax or similar dropping inside the TV set through the air venting slits in the rear panel or cover. This can lead to short-circuits and possibly to fire. If something should get into the set switch it off immediately at the on/off switch, pull out the power plug and notify the after-sales service for inspection.
- The TV power plug must be easily accessible so that the TV can be disconnected from the power supply at all times.
- Lay the power cable so that it cannot be damaged. The power cable may not be kinked or laid over sharp edges, not stood on and not exposed to chemicals, the latter also applies to the device as a whole. A power cable with damaged insulation can lead to electric shocks and is a fire risk.
- When removing the power plug, pull the plug housing and not the cable. The wires in the plug could be damaged and cause a short circuit the next time it is plugged in.
- Your new TV has been built exclusively for use in a home environment. The warranty covers this normal use of the device.
- Only have repairs done by the Loewe Service.

## **Setup**

## For your safety...

The wall holder is designed to include the weight of the wall unit / plasma screen. So, avoid any additional load on it through persons, playing children or objects. Instruct children, in particular, about the danger of excessive load on the plasma screens, the wall holders or the stands.

## **Tilting Spheros wall unit**

You can tilt the flat panel screen (Plasma display) within a range of 0 to 12° by using a wall holder.



Keep the button under the wall holder pressed. Tilt the flat panel screen with the other hand into the desired position, then let go of the button. The angle of tilt is retained.

## **Caution: Risk of injury!**

If you wish to tilt the flap screen again, do not touch the mechanism of the wall holder!

#### Please note!

The plasma screen of the Loewe Spheros has the modern image format 16:9 and is conceived for displaying moving images.

The entire screen is utilized while displaying the picture in the format 16:9.

As far as possible, avoid displaying the image in the format 4:3 over a longer period (some weeks), because then only the central portions of the screen surface are used,

## showing dark strips to the right and left of the image.

Select an image that fills up as much of the screen area as possible, e.g. "Panorama". This way, you can prevent formation of different contrast areas on the screen. If upper or lower portions of the image are visible only partially in this format, use the option "Shift image vertically"; refer to page 10 Image Menu.

Display of TV images or static images / text pages from a computer through the VGA/DVI connection over a long time (over 10 minutes) should also be avoided; otherwise the image contours can remain static on the screen even on switching the monitor off.

The **DRM** (Digital Refresh Mode) function in this unit can eliminate or reduce such weakly visible effects.

Effects, remnants of excessively long static image display, cannot be reversed even with the help of DRM.

#### **Function Digital Recorder DR**

Your Loewe TV set is equipped with a Digital Recorder. This can be used like a VCR to record and play picture and sound of TV programs. Please read the enclosed "Digital RecorderPlus" operator manual to find out how to operate it.

#### Note

The screen you have purchased meets the highest quality requirements in this sector and has been tested for pixel errors. Despite the utmost caution in production of the display, it cannot be totally ruled out that some of the pixels might be defective for technological reasons.

Please understand that such effects cannot be considered as a unit defect in the sense of the warranty as long as they are within the limits specified by the standard.

## **Setup and cleaning**

A detailed setting up and assembly instruction accompanies every Spheros wall/desk and stand unit.

 Set up the Spheros Signal Box and the screen with sufficient space for ventilation.
 The openings for ventilation must not be covered with objects, such as magazines, tableclothes, curtains etc.



 Place the Signal Box not on its side, but always on its feet.



 Make sure that the screen is not exposed to bright light or sunlight, otherwise it creates reflections and the brilliance of the screen is lost.

Clean the glass plate of the screen only with a soft piece of cloth.

Also clean the other components of the system, such as the Signal Box and remote control, only using a soft moist piece of cloth (without any strong or scouring agents).

## **Initial installation**

#### **Batteries**

To insert or change the batteries, press the point marked by an embossed arrow. Push the cover of the battery compartment down and remove it. Insert the batteries of the alkaline manganese type LR 03 (AAA) with the correct polarity (+/-).





Then push the cover back on.

#### Note on disposal of batteries:



The original batteries do not contain any pollutants such as cadmium, lead and mercury. Used batteries do not belong in the domestic waste. They must be taken to the appropriate collection points according to the national laws. Ask your dealer.

#### **Connection**

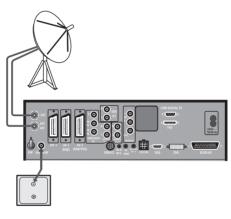
#### Mains

Connect the TV set to a 230V/50-60 Hertz outlet.

#### **Antenna**

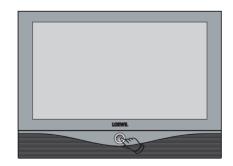
Connect your antenna or cable system to the antenna socket to the UHF/VHF antenna socket on the back of the signal box.

When equipped with a satellite tuner, connect the satellite antenna to the SAT sockets.



## **Switching on**

Press the On/Off button so that it is pressed in.



#### **Initial installation**

Automatic programming of the TV set is started the first time you switch it on. Follow the menus.

First you have to select the menu language for your set. Then you specify which antenna you have connected to your TV and in what country you are using it. Then you start the station search. The TV set searches for, stores and sorts all the stations which your antenna system receives. You then see a list of the stored stations in which you can mark your favorites. Finally log in your video recorders, decoders, Loewe audio system and Home Automation with the connection wizard and connect these to the TV set according to the illustrated connection plan.



Select the settings with the arrows on the ring ...



... confirm the settings with **OK**. You then move on to the next menu ...



... press this button if you want information about the settings.

You can repeat initial installation at any time, e.g. after moving house. Call the index in the main information (i button). Then select the item "Repeat initial installation". Then start "Initial installation" with **OK**.

#### Menu functions in TV

#### EPG

Call the electronic program guide of the TV set. EPG can be called and hidden with the \* EPG button.

#### PIP

Call/hide the picture in picture function of the TV set. PIP can be called and hidden with the PIP button.

#### TV radio (SAT radio)

Switch the radio mode of the TV set on/off with RADIO button. Prerequisite: Your TV is equipped with a satellite tuner (see on page 16).

#### Video

Call or hide the video control bar. Press the button 🕞 .

#### **Format**

Call the selection for setting the picture format. Select the picture format by repeated pressing of the \top\top\top\top\top button.

#### AV input

Call the AV selection for playing connected equipment (e.g. VCR, camcorder or DVD player). The AV selection can be made with the

O AV button.

#### **Picture**

Show/hide the picture menu. Press the button

You can set the TV picture with the help of the picture menu. The Picture menu can also be called by the TV menu ' Picture.

#### Sound

Show/hide the Sound menu. You can set the TV sound with the Sound menu. The Sound menu can be opened under the "TV menu – Sound". On the **RC3** remote control also directly with the button.

#### Sound mode

Call the sound mode settings of the connected Loewe DVD-Preceiver "Auro".

Press the button 🗖 .

#### **Timer**

Call the timer overview of the TV set. Press the button .

#### Digital Recorder Plus (DR+)

If a hard disk is integrated in the Signal Box (set variant), you can record and play TV programs. Depending on the selected recording quality the possible recording capacity is between about 20 and 100 hours.

The possibilities of the Digital Recorder are much more versatile than those of a video recorder. Use the separate "Digital Recorder Plus" operating manual for operation.

## **Rotating the TV set**

(only when equipped with "Motor Unit")



Launch the TV menu: Press **MENU** on the remote control.



Select the "Rotate TV" bar.



Using the arrows on the circular pad you can set the rotation direction to go right, to stop or to go left.



Close the menu.

#### Note:

Do not place any objects in the range of rotation of the TV set which could obstruct rotation or be knocked over in the process. Before activating the rotary function, make sure that the set can rotate freely and unhindered. You will find further setting possibilities on page 28.

#### **Remote control RC3**

Remote control for operating different Loewe units.



Operating the TV: Set the rotary switch to "TV".

Ex-factory settings are: Loewe video recorder, Loewe DVD recorder and for STB (Set Top Box) the d-box common in Germany. The remote control must be switched for operating a Loewe DVD player.

## TV equipment

Functions marked by \*\* are not available in all types of TV sets but can usually be retrofitted. Ask your dealer if you are interested. Menu contents may differ from the ones shown depending on your TV equipment. Operation of the "Digital Recorder", if available, are described in a separate operating manual.



You can show your TV equipment by pressing the **INFO** button on the remote control.



Select the "Equipment" line in the "Main information" menu.



Press the **OK** button.



Hide the menu again with the END button.

Use the drive buttons in TV- and STB position for VCR, DVD or Digital Recorder You can switch over the six drive buttons both

for TV and STB for operating a VCR or DVD player/recorder. Operation of the built-in Digital Recorder Plus is specified ex-factory.



First turn the switch to the main function TV or STB.



Press the END and \* EPG buttons at the same time (5 secs). The display at the top left of the remote control flashes twice.



Enter the numbers 988 one after the other. The display again flashes twice.



Now turn the switch to the required function for the drive buttons. DVD, VCR or TV if the Digital Recorder is to be used.



Press the # PIP button to complete the setting. The display flashes twice.

The setting is saved.

## Switching on/off

Your TV set is equipped with an economy standby power supply unit. On standby the power consumption drops to low power. If you want to save even more electricity, switch the set off at the On/Off switch (Signal Box). But remember that EPG data will then be lost and timed recordings will not be made.



When the TV is switched on, you can switch it to standby with the blue on/off button. The red standby indicator on

lights up. If the green indicator is also alight a timer recording on the VCR is in progress, EPG data input is taking place or radio mode without on-screen display is active.



From standby it is best to switch back on with the blue On/Off button or with a numeric key (station 0-9). The green (blue) operating LED then lights up.



When you switch on the TV with **OK**, you see the station table and can choose a station.

None of the indicators lights up when you switch off the TV set with the On/Off button on the set.

Switch on the TV set with the On/Off button on the set when it is switched off.



31936\_021\_Spheros42HDR+\_GB 18.10.2004, 10:17 Uhr

## **Changing channels**



Channels up/down (only favorite stations if these are shown in the station table).

With the numeric keys on the remote control The set has a dynamic memory with 220 (with DVB 1470) memory slots. If up to 9 stations are stored, you only need to enter one number, up to 99 two numbers, up to 999 three numbers and above 999 four numbers (please look in the station table to find out how many stations have been stored).

#### 1-digit stations



Keep the button 0 - 9 pressed for one second, the channel then changes immediately. or press the button 0 - 9 briefly, the channel then changes after 2 seconds (immediately when up to 9 stations are stored).

#### 2-digit stations



Keep the second numeric key pressed for one second, the channel then changes immediately. or press both numeric keys briefly, the channel then changes after 2 seconds (immediately when up to 99 stations are stored).

#### 3-digit stations



pressed for one second, the channel then changes immediately. or press the three numeric keys briefly, the channel then changes after 2 seconds (immediately when up to 999 stations are stored).

Keep the third numeric key

#### 4-digit stations



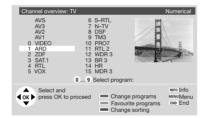
Press the four numeric keys briefly, the channel then changes immediately.

Depending on how many stations have been stored, you can place one or more zeros in front of the number and select for example station 7 = 07 or 007 or 0007.

#### With the station table



Call the station table with **OK**Station table TV





Mark the station (the marked station is shown in the PIP pictures)



Mark with numeric keys



Call the marked station



Sort alphabetically/numerically (blue button)





Show favorites only (yellow button), selectable in the "TV Menu-Programs".

#### Call Audio/Video programs - AV selection

**0** AV

for playing AV equipment.

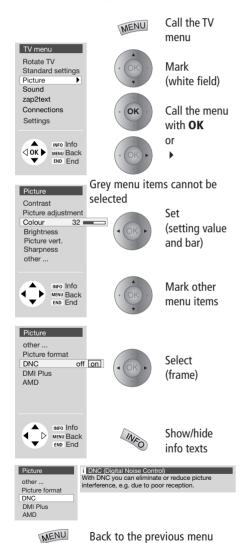
#### AV Selection VIDEO AV1 AV2 AV3 AVS VGA/XGA DVI COMP.IN

Select AV connection (jack) or VIDEO for VCR station.

18.10.2004, 10:17 Uhr

## **General menu operation**

With the TV and picture menus, we show you how to navigate within the menus. Which buttons you can use for operation is shown at the bottom of the appropriate menu.

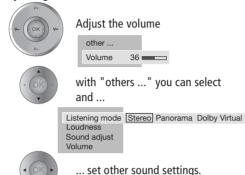


level

Hide all menus

## Adjusting the sound

Adjusting the volume

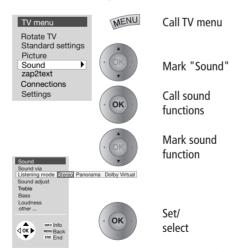


Mute



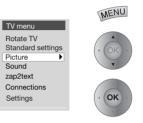
Sound off; Sound on: press button again or adjust volume. The status is displayed briefly on screen.

#### Other sound settings:



Sound settings: Sound via the loudspeakers of the TV set or another system. Listening mode Stereo/Panorama/Dolby Virtual. Sound adaptation, treble, bass and balance. Sound select for loudspeakers and headphones, AV output sound. Volume of the headphones, automatic volume and max. volume.

## **Adjusting the picture**



Call the TV menu

Mark "Picture"

Call picture functions

#### Select picture settings



Picture settings: Contrast, Picture adaptation, Colour, Brightness, Vertical hold (not for 16:9 or 4:3), Focus, Tint (only for NTSC), Picture format, Noise reduction (DNC), Movement compensation (DMI) and automatic picture size adaptation (AMD), DRM.

## Operation on the TV set





#### Volume, contrast and color



Press the function button until the desired function is marked



More volume, contrast or color



Less volume, contrast or color

END

#### TV mode

In initial installation and daily operation, the TV set is in TV mode. This is also the case when none of the other modes of operation such as EPG, Teletext, PIP, Video or Radio is selected. Every one of these modes of operation has a menu which you can call with the **MENU**-button and with some color button assignments.

#### Function of the color buttons in TV mode

You can assign the functions of the four color buttons yourself. The following functions are set at the factory:



red: personal teletext page (with DR+: call DR archive)



green: call picture format setting (with DR+: call timer overview)



yellow: call last viewed station



blue: call station info

You can assign other functions to the buttons in the TV menu "Settings" - "Function keys".

#### Status display



Show/hide status

#### Main information



#### Call main information



## The **explanation of the remote control** shows the function of every button in different

shows the function of every button in different modes of operation of the TV set and the remote control.

The **index** answers many questions regarding all aspects of the TV. If it is a question about the operation, you have direct access to the operating function from the index.

Loewe TV sets are supplied in different models with different equipment. You can find out what equipment your TV has under the menu item "Technical spec. of the TV set".

When you have made all the settings and connections, you can switch over to

"Simplified control" (not in digital TV) using "Select Mode". Then the "Settings" and "Connections" can no longer be launched in all modes of operation menus. Switch "Simplified control" back off when you want to make settings.

#### TV menu



Launch the TV menu



#### Standard values

You can save the setting for picture and sound you have made in this menu and launch them again later.

#### Connections

You will find information about this in the chapter "Logging in and connecting AV equipment" on page 20.

#### zap2text

Some stations use this service. If teletext pages are referred to during a program, the TV set saves and/or displays this page number. You

call the teletext page with the **TEXT** button from the display during the program or from this menu.

Some **settings** in the TV menu:

#### Child lock

Use the child lock if you want to prevent your children watching after a certain time, once or daily, all or certain programs.

#### On-screen displays

You can define duration and position of the displays, the content of the program and status display and activate or deactivate zap2text as a display.

#### Timer functions

You can have your TV switch on and off at specific times or have yourself reminded by a signal tone.

#### Time and date

When you receive teletext, the TV records the right date and time settings. The time serves as information for timer recordings, timer functions and EPG. If you do not receive teletext you should set the date and time and not switch the TV off with the mains button as the settings will then be lost (Not all stations transmit the full date, you may have to add missing data manually).

#### Language

If "your" menu language is not set, you have to select the "Language" menu in a language you cannot understand:

Press the **MENU**-button (TV menu), mark the last menu item (settings), press the **OK** button and mark the last menu item (Language) under "other ..." and press the **OK** button.

Now select the right language and confirm with **OK**.

## **Picture in Picture (PIP)**

PIP can be displayed as Standard PIP, iPIP or Split Screen by default.

#### Standard PIP functions:

The Standard PIP displays a PIP image in the presently displayed TV image.



Show/hide PIP picture

The status of the PIP mode i.e. PIP channel selection or PIP scan is shown in the status display in a colored square before the channel name and appears while changing the channel or on pressing the **END** key.



If the PIP status is green, you can select τηe PIP channel:



Channel up/down or direct

#### PIP image as static image



The PIP status must be green. If it is not, press the green button.



Then press the red button; the PIP image becomes a static image.

Press the red button again for a moving image.

#### Changing the channel of the TV image



The PIP status must be white. If it is not, press the green button.

Then select the station as normal.

#### PIP channel scan



The PIP status must be green. If it is not, press the green button.



Start the PIP scan with the blue button. The PIP status turns blue.

The PIP channel now changes automatically. Stop the station scan with the blue button. The PIP status turns green again.

#### Interchanging PIP image/TV image



The PIP status must be green. If it is not, press the green button.



Interchange the pictures with the yellow button.

#### Position of the PIP image



The PIP status must be green.
Call the PIP menu with the
MENU button.



Mark "Position".



Select a symbol for the position.





Hide PIP menu

#### Size of the PIP image



Mark "Size" in the PIP menu.



Select "Large" or "Small".

#### Split Screen



Mark "**Type**" in the PIP menu.



Select the symbol for Split Screen.





Hide PIP menu

The image on the right pertains to the PIP image and has no sound. TV image and PIP image are separated from each other by a colored line (PIP status).

#### Adjusting "iPIP"

Switch on the PIP menu with the MENU button.



#### iPIP function:

18.10.2004, 10:18 Uhr

In iPIP the presently displayed TV image becomes the PIP image. For the TV image, select another channel and retain the PIP image. In iPIP, the PIP status is orange-colored.

Show/hide PIP picture
Also read the info text; press the **INFO** key.
The PIP image changes back into TV image, when you switch off PIP.

31936\_021\_Spheros42HDR+\_GB 14

#### **EPG** mode

EPG is the electronic station guide for TV programs. With this system, you can easily find the programs that interest you (sorted according to time, day, topics and programs). You can memorize programs and program recordings. A wizard is activated the first time you use EPG (not with DVB) which guides you through the necessary settings. Then run the data acquisition (see page 16).

#### Using the EPG

\* EPG Switch EPG on/off



The first line is framed initially in green. The green frame stands for time and date, with the green button you switch between time and day or, if the frame has a different color, back to the green frame. With the arrow buttons ◀ ▶ you select: now, later, the time or day for starting stations. The list of stations below is updated accordingly. With the buttons ▼ ▲ you mark a station you want to watch (now running), memorize or record.



The frame turns yellow when you press the yellow button. The yellow frame means you can select topics. With the arrow buttons ◀ ▶ you choose between personal topics, all topics and the individual main topics such as Film, News, Show,

Music etc. The list of stations below is updated accordingly. With the ▼ ▲ buttons, you mark a station you want to watch (a program currently running), memorize or record.



The frame turns blue when you press the blue button. The blue frame signifies station selection. Use the arrow buttons ◀ ▶ to choose between your favourite stations, all stations or the station just set. You can select another individual station by moving to "..." with ▶, marking a station in the list and storing it with **OK.** 

The respective current settings are shown next to the operating notes for the color buttons.

#### Direct input of time

You can also enter the time directly with the numeric keys of the keypad. After entering the first digit, the time is displayed first next to the symbol of the green button by asterisks and is then replaced by the entered numbers, e.g. 2100.

If the entered time has already passed, its entry is used for the following day.

#### Viewing or noting a program

You can watch or note the program selected with the  $\checkmark$  buttons by pressing the **OK** button. A + sign is set in front of the program title for noting. At the start of the broadcast, this program is switched to or you see a message.

#### Programming recording with VCR

You prepare the station marked with the buttons ▼ ▲ by pressing the red button. Under "Timer Recording" you select VCR and whether

you want to record one program or a serial. A red dot is set in front of the title of the program. If a program is already marked by a red dot, you can delete the timer data again with the red button (the red dot disappears).

#### Calling detailed information

If detailed information about the selected station is available, you will see the **TEXT**-button displayed additionally. You can call the detailed information with this button.

#### Other functions in the EPG menu: Call the EPG menu with the **MENU** key.

#### List of memorized programs

You will find the stations you have memorized in a list.

#### Switch on TV at mark

You can have the TV set switch on automatically from standby mode at the time of a marked program. If you are not in at this time, a security prompt makes sure that the TV switches off again after 5 minutes.

#### Indicate/start memorized station

If the TV is already on when the memorized program starts you can have the start of the program indicated or the TV switched over immediately.

#### Short info lines

Short infos are broadcast for many programs. Set how many lines this information should have or switch the short info lines off.

#### EPG entry

If you want to start EPG operation, you can retain your last settings for topic and program selection or start with all topics and all programs.

#### **EPG** settings

If you want to change the provider or want to have other programs evaluated, you can do this in the EPG menu.

#### Provider search



EPG on/off



Call EPG menu





Mark "Select provider/program"



#### Call



Start provider search (green button). This may take some time.



Mark the provider

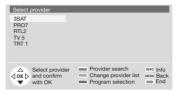


Save the provider

This is followed by a station search and a list of TV stations is displayed which transmit data. Move on to the provider selection with the **OK**-button. If the stations offered are what you want, move on to the station selection with the blue button.

#### Selecting stations for EPG

Select the stations here for which information is to be collected.



Stations marked by + are favorite stations. The provider supplies information for stations marked by E (terrestrial, cable and analog satellites) and D (digital), these are already marked (blue letters).



Mark the station/Remove the marking



red: Only mark favorite stations



green: Mark all stations



yellow: Only mark this station



Back to the EPG menu

#### Switching data acquisition on/off



Mark "Data acquisition" in the EPG menu under "other"



Select data acquisition off/on



If, for example, you cannot receive any EPG providers and no DVB is installed in the TV set, you should switch off the data acquisition.

#### Performing data acquisition

The data must be collected first after these settings or every time the TV is switched off. To do this, select the program which you have defined as a provider and leave it switched on for about one hour or switch the TV set to standby mode. The green (blue) LED lights up in addition to the red LED after about two minutes. Data acquisition takes about one hour, in sets with a DVB module a little longer. The data are automatically collected between 2 and 5 in the morning when the TV is switched off to standby.

#### **Defining personal topics**

You will find the programs that interest you faster when you define your personal topics.

Mark "Select personal topics" in the EPG menu and put together your list of personal topics.



#### Radio mode

Switch the TV-radio mode on or off by pressing the RADIO button.

If a satellite tuner and a DVB module are installed in your TV, radio stations are available. If these accessory modules are not installed, you can select only the audio inputs (connections AV1 to AVS, DIG IN 1, DIG IN 2) with the program table or with the keys 

and play an external audio signal through these.

#### **Teletext mode**

Teletext transmits information such as News, Weather, Sport, Program Previews and Subtitles.



Teletext on/off



Many stations use the TOP operating system, some use FLOF (e.g. CNN). Your TV supports both these systems. The pages are divided into general topics and topics. After switching on the teletext, up to 3500 pages are stored for fast access.

#### Selecting pages with the colored buttons

The colored bars (in TOP) or the colored writing (in FLOF) in the last line but one show you which colored buttons to use to scroll to general topics and topics.





red: back to previously viewed page (not with FLOF)



green: forward to next page (not with FLOF)



yellow: to the next topic (only in TOP and FLOF)



blue: to the next topic (only in TOP and FLOF)

Page selection with the numeric buttons

1 2 7 pgrs Enter the page number directly

#### More functions for page selection



Mark a specified page number on the page (Page Catching)





Launch



Scrolling in stored sub-pages. In the bottom line you will see which sub-pages you can already launch





The TOP table is a general list of teletext. You can only launch the table on channels which use the TOP operating system.







Mark a general topic



Select the Topics column



Mark menu items



Display page

#### Displaying teletext pages

O AV Stop self-turning pages (HOLD)



zoom: top half - bottom half - normal size



TV picture on/off (Split text)



#### Program timer recordings

If the remote control is set to "TV" (no equipment combination), call the program pages of the current station with the Record button • in teletext mode. Select the station you want to record with • and confirm with the **OK** button. Select VCR for "Timer data". Confirm with **OK**.

#### Teletext menu



Launch teletext menu



Here you will find functions such as "News flash", "Show" hidden information, switch to other channels (if another tuner is available), enter 4-digit sub-page number directly and programme video timer recordings via teletext. In the settings you will find menus to define the preview pages, subtitle pages and personal teletext pages.

31936\_021\_Spheros42HDR+\_GB 17 18.10.2004, 10:18 Uhr

## **LOEWE Dialog**

(only activated in connection with the Digital Recorder Plus)

In connection with the Digital Recorder Plus the LOEWE dialog page offers an overview and quick access to information content of the TV, e.g. the programs currently showing, programs last recorded etc.

You should have already made a few settings before using the LOEWE Dialog to provide selection possibilities.

You should have made the EPG settings described on page 15 and run the EPG data entry. The Digital Recorder archive should also already contain recordings. You should have defined a few personal teletext pages. In all these cases you then have a useful selection. No LOEWE dialog is displayed with NTSC reception.

You call the LOEWE Dialog with the arrow buttons on the remote control when no menu is displayed.

(OK)

Press one of the arrow buttons

• • for about 1 second.



The TV program just selected is shown in reduced size (the live picture).

The blue bar shows you the selectable functions. The function on the left is active. You can move the function to the active position

with the arrow keys ◀ ▶ .

Above the selected function you see a selection which you can navigate with the arrow buttons and view with **OK**.

With TV now - The selection of programs currently running acquired by the EPG system is displayed in TV now. If no EPG is received, a programme info of the station currently being received is displayed.

**With Archive** - the selection of recorded programs in the DR archive is displayed.

With Radio - the selection of programs of the satellite radio is displayed. If you have switched over to Sat radio mode, LOEWE Dialog cannot be called. If you do not receive satellite radio (no satellite tuner/DVD module), Favorites is displayed in place of Radio, that is favorite programs you have defined.

**With Teletext** - the selection of personal teletext pages is displayed.

This is how you select with the example of the "TV now" function

Press the **OK** button to watch the station. You can call LOEWE Dialog with the **A**  $\checkmark$  **b** buttons so that the desired function is ready for selection on the left.



Call TV now A







INFO Main info

Select and press

#### Video mode

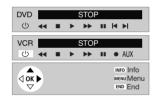
You can operate Loewe video recorders and DVD players with the video control bars even if they are hidden. The VCR's must be connected to the Euro AV sockets (Scart) and logged in under the "Connections" menu.

Digital Link must be switched on on the Loewe video recorder. Only then can you use the control bar. You also need Digital Link for timer recordings of satellite programs controlled by the TV set.

You can display up to three menu bars, these are displayed when the appropriate video units are logged in the "Connections" > "Connections: Connection plan" menu.

 $\oplus$ 

Show/hide video menu bar:





Select video menu bar, if for example several VCRs or a DVD player and a VCR are connected.



Select function



Switch VCR/DVD on/off



Select video input (Euro-AV socket) for the VCR



Rewind (only for VCR) or Scan in rewind



Stop (STOP)



Playback (PLAY)



Fast forward (only for VCR) or Scan in fast forward



Pause (PAUSE)



Next chapter (only for DVD)



Previous chapter (only for DVD)



Record



Perform selected function.

When you start a recording, the program you have just selected is recorded. You cannot switch over to another channel, it is locked. You can only switch over when the recording has finished.

#### **Exceptions:**

- You have installed several tuners (not PIP tuners) in the TV set, then you can watch another channel with the second tuner.
- 2. You can also watch the signal via an AV connection (e.g. DVD player or a second VCR).
- In a VCR with Digital Link Plus the VCR tuner is used for the recording (not for satellite programs).

#### Video menu



Show the Video menu



A line is displayed in the menu if a Link Plus Recorder is connected.

The Video menu provides you with the following options:

You can change and delete timer data or program new recordings in the "Timer" menu. The "Record" menu gives you the option for timer programming by EPG, teletext or manually.

You can call the archive list with "DR Archive" if a Digital Recorder is built in.

In the "Connections" menu you can log other AV equipment on or off. In the "Digital Link Plus transfer" menu the station data of the TV set (not satellite stations) are transmitted to the Digital Link Plus VCR.

**Digital Link Plus** VCRs have the possibility for transferring the station data from the TV set to the VCR via the Euro-AV cable (not for satellite stations). Every time you change the station memory of the TV, you are asked whether you want to make a data transfer.

The receiver unit of the VCR is always used for recording with a Digital Link Plus video recorder (not satellite stations) and the tuner of the TV set is available for watching TV. Loewe VCRs also have **Digital Link**, a system for controlling Loewe VCRs via the Euro-AV cable. If the Loewe VCR only has Digital Link, the TV tuner is used for recording. If you have installed your Loewe VCR in a concealed place, you can operate the Loewe VCR with the remote control. Operation with the control bar also works with Digital Link.

## Digital Link must be switched on on the video recorder.

Only use fully wired Euro-AV cables, otherwise Digital Link or Digital Link Plus will not work.

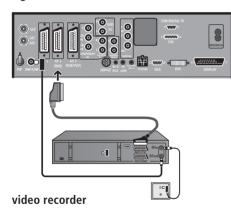
#### Logging in equipment

You have already logged in and connected all connected devices (video recorders, camcorders, DVD player, DVD recorder, Loewe audio system, Pay-TV decoders, Loewe home automation, door intercom) with the connection wizard when you put it into operation for the first time. If you want to connect further or different devices, you have to call the connection wizard in the TV menu - "Connections".

#### Connecting VCR equipment

In addition to the connection via the Euro-AV socket, you also have to connect the antenna (only for antenna or cable systems) through the VCR to the TV set. The antenna signal is then available both to the tuner in the VCR and the TV tuner.

#### signal box

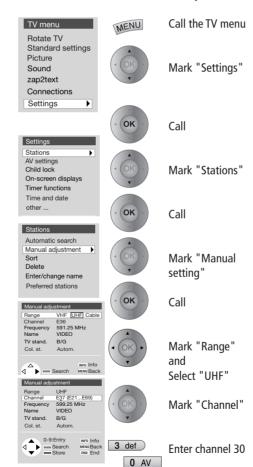


## Search for and store the VCR station (if there is no Euro AV cable)

Switch on the test station on the VCR or insert a recorded tape and start playback.

Then call program 0 on the TV set (set ex-factory to channel 36). Select the first menu item (VCR) in the AV selection list.

To prevent "normal" TV stations being found in the search, pull out the antenna plug from the antenna input of the VCR temporarily (the plug attached to the cable to the antenna system).







Search for channel (blue button)

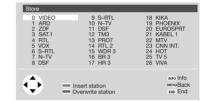
When the station is found:



Store (red button)

If you want to change the program, e.g. to "Video", select the "Name" line.
Enter the new program name.

A list of the stored stations is displayed





Overwrite program (program 0 marked) pressing the **red** key



Hide menus

Plug the antenna plug back into the VCR. If you now get interference because a TV station is transmitting on the same channel as the VCR station, you have to change the transmitting station on the VCR (see operating instructions of the VCR) and search for the VCR station on the TV again.

#### Video playback

There are several ways to see the picture and hear the sound of the VCR, DVD player or camcorder on your TV:

 Use the Euro-AV sockets on the signal box and VCR. This is the best way to get a good picture and sound quality. For camcorders it is best to use the front sockets AVS.
 If you are playing back from a VCR with Digital Link Plus, the VCR picture is shown on the current station slot.
 If you are playing back from a standard VCR, DVD player or camcorder, select the AV

VCR, DVD player or camcorder, select the AV socket to which the video signal is connected in the AV selection list or the station table.

Video recorders emit a switching voltage during playback which the TV set can decode (can be activated for every VCR in the connection wizard or set Settings - AV Settings - Allow switching voltage to "Yes" in the TV menu). Then the VCR picture is shown on the current station slot as in Digital Link Plus VCR's.

- You can also control logged in Loewe VCRs and DVD players with the video menu bar. See page 19 for more details.
- 3. Use the antenna connection between the VCR and the signal box. The sound is only transmitted in mono. Select the first menu item, e.g. VIDEO, in the AV selection.

#### Calling an AV program in the AV selection list

Call AV selection list

#### AV Selection VIDEO AV1 AV2 AV3 AVS VGA/XGA DVI COMP.IN



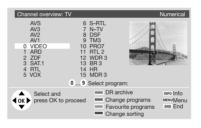
Select AV connection (e.g. socket AV1) or VIDEO for the VCR station.

Now you will see the playback from the connected AV unit.

#### Calling an AV in the station table



Call the station table



In the numeric sorting you will always find the AV devices at the top of the list without station numbers.



Select the AV connection and...



confirm with **OK**.

Now you will see the playback from the connected AV unit.

#### IR-Link

Your TV set is equipped with the IR-Link socket (IR-Link), a cable with plug and the IR transmitter diode are included with the set. This allows you to operate a concealed d-box or a VCR from another manufacturer with its remote control through the TV set with most remote controls. Plug the jack plug of the cable with infrared transmitting diode into the IR-Link socket on the back of the signal box. The infrared transmitting diode at the end of this cable must be placed in front of the concealed device. The TV must be switched on for transmission.

A napped strip is provided to help to lay the cable. The strip is self-adhesive; pull off the backing foil first. Stick the strip to the shelf or cabinet and press the cable into the naps. You can cut up the strip into several sections with a knife.

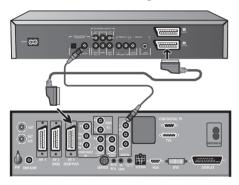
Point the infrared remote control at the TV to operate the concealed VCR.

## **DVD** player

Log in the DVD player as described in the TV operating manual.

The signal box has two coaxial digital audio inputs 1/2. Connect the output socket of the DVD player (DIG OUT) to the digital audio input socket (DIGITAL IN 1 or 2) of the signal box with a cinch cable.

Also make a connection for the picture and analogue sound signal (mono or stereo). Plug the Euro-AV cable into the "Euro AV 1/ Audio/ Video" socket on the DVD player and into the Euro-AV socket AV 3 on the signal box.



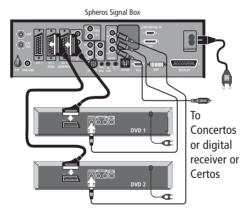
## **Digital output**

The digital sound signal is present at the socket DIGITAL OUT of the TV set. You can connect here, say, an external Dolby digital decoder.

## **Digital input/output**

The integrated "Digital Input Selector" is a comfortable electronic switch with about 4 inputs and one output for digital sound signals. Connect the Loewe Certos/Concertos system or a digital receiver to the digital output (DIGITAL OUT) of the TV set. This switch makes two digital inputs (DIGITAL In 1 and 2) available to you for external devices.

The TV set uses the other two inputs. The TV set or a DVD player or another sound source, connected to one of the AV connector sockets of the TV set, thus converts a digital signal (PCM) and outputs it to the socket "DIGITAL OUT". You connect the digital sound output of the DVD/CD player to the digital input 1 or 2 on the TV set by means of a Cinch cable. The digital signal from the DVD player is outputted unaltered at the digital output of the TV set. You connect the video output of the DVD player to the AV connection socket AV3, AV2, by means of an AV connecting cable, depending on the default in the "Connections" menu of the TV set.



If you switch on the "Radio Mode" the digital inputs 1 or 2 can be selected directly. The digital TV sound or the sound of a DVD/CD player is only audible through the Digital Receiver or the Concertos or Certos system.



1. Call up the TV menu by pressing the **MENU** key.





2. Select the "Sound" line, then press the **OK** key.



3. "Sound via" select the "AV amplifier (Dig. input)" or "Concertos", if Concertos has been connected.

Sound			
Sound via	TV AV a	mplifier (digital input)]HiFi	Concertos
Headphone vol	lume		
Loudspeaker s	ound		
Headphone so	und		
AV audio signa	d		
Dig. DVB outpu	ut tone		



Press the **OK** key



4. Press the **MENU** key.



5. Select the bar "Settings" and confirm with **OK**.



6. Select the item "AV settings", then confirm with **OK**.



7. Select the "Assigning Audio digital" line and press **OK** to confirm.

# Assign audio digital Digital In1 no to AV1 to AV2 to AVS Digital In2 no

- Select "Digital IN 1 to AV3" for example for socket AV3 if a DVD player or CD player with coaxial-digital output is connected to digital input 1 and this device is logged in in the "Connections" menu.
   If the video signal from a play console is
  - connected to the AVS socket, the relevant device is logged in and the digital sound is present at the digital input 2, then select "Digital In 2 to AVS" etc.
- 9. You can complete the settings by pressing the **END** key, the settings are then saved.

#### AV-connection/Select device:



Press the key 0 on the remote control a little longer; the AV selection bar is displayed again.

#### AV Selection VIDEO AV1 AV2 AV3 AVS VGA/XGA DVI COMP.IN



Select the AV connection to which the sound source, such as the DVD player, is connected.

#### Note

The digital TV sound or the digital sound from a DVD/CD player is only audible through the Digital Receiver or through the Concertos or Certos system.

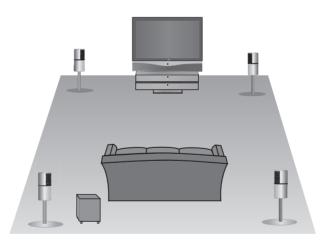
# Connecting Loewe sound systems

The arrangement of the speakers and the television set might look as depicted below. However, the layout of the front and surround speakers should be set up in symmetry to the television set and your sitting position.

The surround speakers can also be set up behind your sitting position, facing towards the front speakers.

The Acoustimass® module can also be set up in another place, e.g. particularly effective behind your sitting position, but in such a way that the bass frequencies are able to radiate freely.

#### Spheros with Concertos sound system



The Concertos sound system offers you a new type of sound dimension in music and film performances with integrated electronics. Even at low volumes, you can then hear the full bass in the correct ratio to the higher and medium frequencies.

Loewe offers two sound systems **Concertos 1** and **Concertos 2**, consisting of an Acoustimass<sup>®</sup> Module, a set of cables and the satellite speakers.

If the integrated speakers of the TV set are not to be used for the center channel, then **Concertos 1** with five Loewe satellite speakers can be connected.

Your Spheros uses the integrated loudspeakers in the TV as a center channel. Therefore use Concertos 2 with four satellite loudspeakers.

## Connecting Concertos components:

Before connecting the devices, ensure that they are switched off or pull out the mains plug. Connect the components of the Concertos system to the TV set, as shown on page 26.

#### First use:

To put Spheros into use with the Concertos system, some settings from the Sound menu of Spheros are required. In this context, please read the separate Operating Instructions "Concertos 1 / 2 – Sound".

31936\_021\_Spheros42HDR+\_GB 23 18.10.2004, 10:18 Uhr

# Converting the remote control in order to operate a Loewe DVD player or devices from other manufacturers

You can switch over the remote control for VCRs, DVD players and Set Top Boxes if the infrared code of the equipment type is listed in the code list or is in the code memory of the RC3. Switching over is done on the one hand by entering a four-digit code and on the other hand the remote control suggests codes which you can test on the equipment.

If you cannot find the equipment in the code list, try a suggestion from the remote control. Even if the manufacturer of the equipment is included in the code list, it is possible that it cannot be operated. Not all functions on the RC3 are available for this equipment.

Switching over the remote control – with code input – e.g. to the Loewe DVD player Look for the code number of your equipment in the code list. The list is sorted according to equipment type – DVD, VCR, STB – and alphabetically according to manufacturer. You will find one or more code numbers next to the manufacturer name.



Using the switch select whether you want to switch over to a VCR, DVD player or a Set Top Box.



Press the END and \* EPG buttons at the same time (5 secs). The display at the top left of the remote control flashes twice.



Enter the four numbers from the code list one after the other (0539 for Loewe DVD player). The display flashes once after each number is entered. Twice after the last number. If the number was incorrect, the display flashes for longer. The code number has not been accepted.

Once the code has been accepted with two flashes, you can test the functionality of the device you have just programmed. If the device cannot be operated or is difficult to operate, repeat the code input with the next code from the list. If no other codes are specified for this manufacturer, try a code suggested by the remote control.

# Switching over the remote control – with the suggestions by the remote control (see page 35-41)

Switch on the device to which you want to set the remote control. Standby is not sufficient!



Using the switch select whether you want to switch over to a VCR, DVD player or a Set Top Box.



Press the END and \* EPG buttons at the same time (5 secs). The display at the top left of the remote control flashes twice.



1 \* EPG

Enter the numbers 991 one after the other. The display flashes once after each number is entered.

Press the # **PIP** button to select the first code.

Hold the remote control pointed towards the device you want to switch over to. Watch the device.



Now press the ▶ (Play) or ○ (On/Off) button on the remote control.

Wait a moment for the reaction of the device. If the device does not react, the code is incorrect.



Press the # **PIP** button to call the next code.



Press the ▶ (Play) or ⊜ (On/ Off) button again.



If the device reacts, press the **\* EPG** button to confirm the code.

## Remote control RC3 for operating a DVD recorder or DVD player



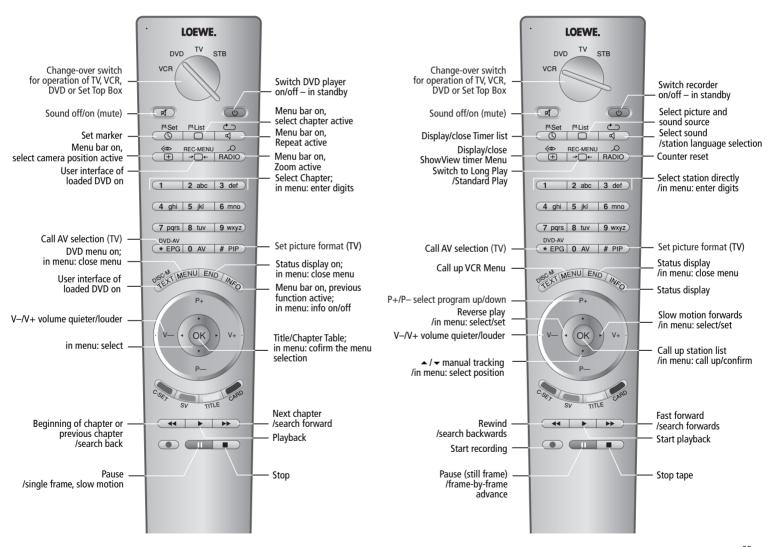
Set the rotary switch to "DVD".

## Using the RC3 remote control for operating a video recorder

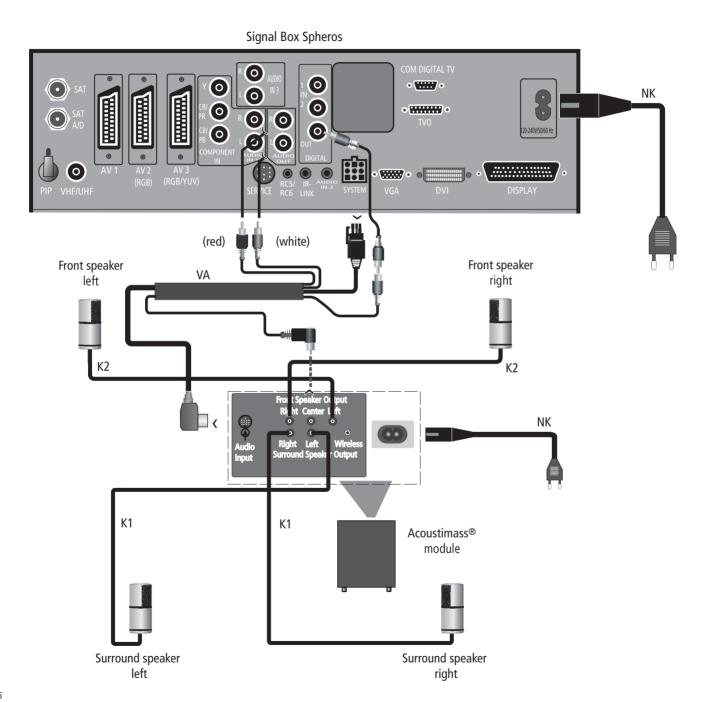


Set the rotary switch to "VCR".

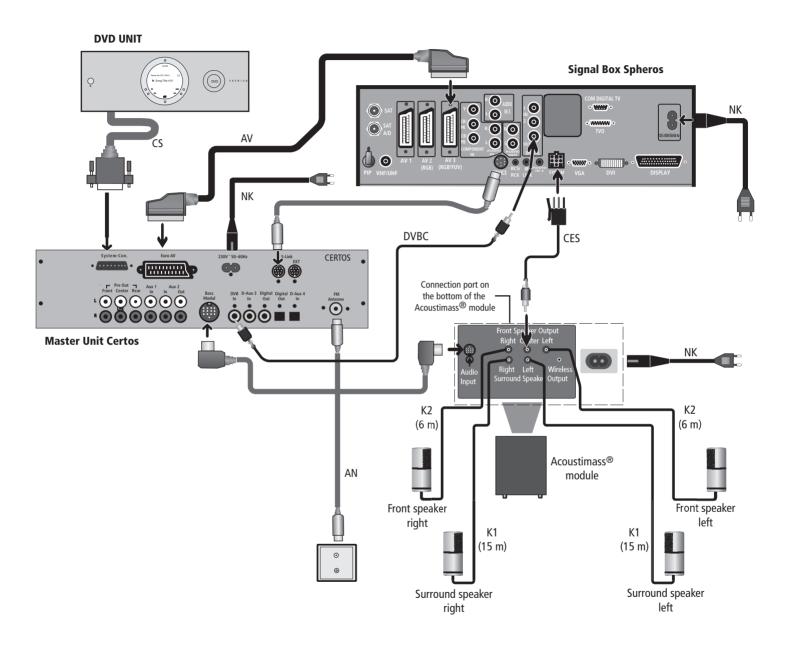
The infrared code and the functional scope for a Loewe VCR is set ex-factory.



## **Loewe sound systems Concertos and Spheros**



## **Loewe sound systems Certos/Concertos and Spheros**



## Viewing angle range of rotation

If the screen is mounted on a "Motor Unit" you can rotate it with the remote control to suit your sitting position.

## Setting the rotation area (a maximum of +/- 40 degrees)

With this menu, you can determine the maximum rotation to the left and right.



Press **MENU** on the remote control.



Highlight the "Settings" bar.



Press **OK**, then to "other..."



Highlight the "Rotate TV" bar, press **OK**.



Select line "Basic adjustment".



Press the **OK** button.



You set the desired maximum range of rotation to the right by pressing the ring (right). Rotation stops when you release the ring.



The setting is saved by pressing **OK** .



Then set the desired maximum rotation to the left by pressing the ring (left).



Confirm with OK.



Press **END** to exit the menu.

#### Determining the switch off position

Here you determine the position of the screen (TV set) which is adopted when switching off providing you have activated this function.



Press **MENU** on the remote control.



Highlight the "Settings" bar.



Press **OK**, then to "other..."



Highlight the "Rotate TV" bar, press **OK**.



The menu "Rotate TV" appears. Select Define "Switch-off position".



You set the desired switch off position to the right or left by pressing the ring.

You have already determined the rotation range you can select.

Rotation stops when you release the ring.



Save the "set switch-off position" with **OK** .

#### Function switch off position on/ off

You determine whether the TV set moves back to the determined switch off position when switched off with the remote control (the set cannot be operated during this time, approx. 35 seconds).



Press **MENU** on the remote control.



Highlight the "Settings" bar.



Press **OK**, then to "other..."



Highlight the "Rotate TV" bar, press **OK**.



If you select "yes" in the line "Activate switch off position" the TV set will turn to the set position when switching off with the remote control.

The TV does not rotate when switching off if "**no**" is selected under "Activate switch off position".
The TV set stays at the last set position when it is switched off.



Press **END** to exit the menu.

## **Displaying PC images (DVI/VGA)**

Your Spheros has a digital visual interface (DVI) with which you can show PC images on the TV screen for example.

## Connecting personal computers

Connect the PC directly to the socket labeled "DVI" on the back of the Spheros signal box. The digital audio signal can be connected to the input "Digital In 1 or 2". If your PC does not have a DVI interface, please use a VGA cable and connect it to the "VGA" socket on the signal box. Connect the analogue audio output of the PC to the "AUDIO IN 2" socket. The TV set can be connected to the following standards: VGA (640x480 @85Hz), XGA (1024x768 @85Hz), SVGA (800x600 @85Hz) or SXGA (1280x1024 @75Hz).

#### **DDC Function (Display Data Channel)**

The DDC function automatically detects graphic resolutions supported by the TV set. If you wish to use the DDC function, first connect the PC to the TV set via the VGA or DVI socket. Boot the PC. Regardless of whether the TV set is on or off, you can select the graphic resolution (e.g. XGA 1024 x 768 at 75 Hz) in the "Properties" menu on the PC.

## Launch the program for displaying PC images



Press the (Zero) key and "AV Selection" appears.



Choose "VGA"/XGA"

#### PC image settings

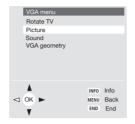
If a PC image is displayed on the screen, you can call up the "VGA menu".



Call up the VGA menu and...



Highlight the "Picture" line





Confirm

In the "Image" menu, you can select the contrast, brightness, sharpness, picture format, colour standard (not with DVI) etc. and adjust the light ratios to your personal preferences. To display pictures, you can select the format 4:3, since most camera pictures are taken in this format.

For an optimum display and maximum picture focus of standards VGA and SVGA, you can select "Original" under "Picture format". In this case the exact format values of the graphic card must be known and set in the menu "VGA geometry".

In the "**Sound**" menu, you can set the volume of the loudspeakers or headphones, or select the tone for two-tone playback.

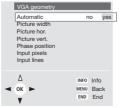
#### VGA geometry settings



In the VGA menu, select the line "VGA Geometry"



Launch



The setting options are restricted in "DVI".



Select "**Automatic yes**" on a computer with a conventional graphics format.



Your Spheros will automatically adjust to the supplied image format.

Special graphic format may require further settings to be made:

- Set the picture width
- Move the picture horizontally, to the left or right
- Move the picture vertically, upwards or downwards
- Set the phase position to give a picture that is as jitter-free as possible
- "Input pixels" allows you to set the horizontal resolution of the PC image.
- "Input lines" allows you to set the vertical resolution of the PC image.



Save settings



Pressing the **END** key on the remote control hides the menu.

Selection possibilities for the "COMPONENT IN" socket: Choose the menu "Connections" and set it as follows: Connections: Connection plan → Device selection → others → Device to COMPONENT IN socket **yes**. After pressing **OK** several times, you get the menu "Connections" with the following selection possibilities:

- Automatic, it is detected automatically which signal SDTV or HDTV/Pro scan is applied at the "COMPONENT IN" socket.
- SDTV for PAL with 625 lines, 50 Hz interlaced or NTSC 525 lines, 60 Hz interlaced
- HDTV for high definition video signals
- Pro scan for 625 lines/50 Hz or 525 lines/60 Hz progressive.
- With **OK**, you finally get the menu "Connections: Assign Audio Digital".

31936\_021\_Spheros42HDR+\_GB 29 18.10.2004, 10:18 Uhr

## What to do when ...

Problem	Possible cause	Remedy
Various menu items cannot be called (shown in gray) or the menus for the EPG and teletext modes of operation cannot be called	"Simplified operation" activated in the main information.	Deactivate "Simple control" in the Main Information, press the i-key, select "Select control level" and call up with <b>OK</b> . Set "Simple control" to "no".
Record and Timer are not displayed in the video menu	No VCR or DVD recorder logged in and no digital recorder installed	Log in VCR in the TV menu - Connections.
"Connections" for example cannot be called in the video menu (grayed out)	a) A timer recording is in progress (not with serial timer recording) b) You are recording from the TV set with the video bar	<ul><li>a) Wait until the timer recording has ended or clear the timer.</li><li>b) Stop recording.</li></ul>
In the TV menu, the menu item "Programs" is missing and in the Main Information the item "Automatic channel search" and connections	The child lock is activated. If these menus were accessible, children could still set the programs.	Deactivate program-related child lock: Switch off child lock or enter PIN in the TV menu - Settings.
Control of the Loewe VCR with the video control bar and the timer does not work or does not work properly	a) The VCR's Digital Link function is not activated or not possible b) Euro-AV cable not connected c) Video recorder not logged in	a) Activate Digital Link in the VCR (see operating instructions of the VCR) b) Connect the Euro-AV cable c) Log in the VCR
General problems with connecting external devices through an AV input	a) The device is not logged in in the "Connections" menu or is connected differently to shown in the connection diagram b) The AV norm is set incorrectly c) The AV signal is set incorrectly	<ul> <li>a) Compare the connection diagram with the actual installation in the "Main information" under "Connections" and connect as shown if necessary.</li> <li>b) Set the correct norm.</li> <li>c) Set the correct AV signal.</li> <li>If "Automatic" is set for AV norm or AV signal, this can lead to wrong detection in the case of non-standardized signals. In this case the norm and signal must be set according to the operating instructions of the external device.</li> </ul>

## What to do when ...

Problem	Possible cause	Remedy
Connection of a decoder does not work or does not work properly	a) The signal is not decoded because the correct decoder programs have not been selected in the TV menu - Connections     b) The sound is missing in decoder mode because the wrong decoder sound is allocated in the TV menu - Connections	<ul> <li>a) Follow the instructions in the TV menu - Connections again and select the appropriate decoder programs.</li> <li>b) Follow the instructions in the TV menu - Connections again and select the right sound source (decoder, TV or Autom.), see instructions of the decoder.</li> </ul>
No sound through the TV loudspeakers	The item "Sound from" in the Sound menu under "Sound" is not set to "TV"	Change the setting to "TV".
All menus appear in the wrong language	The wrong menu language has been set.	Set your menu language:  1. Switch off picture-in-picture (PIP) and switch off all on-screen displays (END button)  2. Call the TV menu (MENU button)  3. Select the last menu item and press OK  4. Select the last menu item on the last page and press the OK button  5. Now select the right language and  6 confirm with OK.
Digital Link Plus does not work	<ul> <li>a) The VCR has not been logged in as a Digital Link Plus device or has been connected to the wrong socket</li> <li>b) The Euro-AV cable is not fully wired (Pin 10 not wired)</li> <li>c) Some video recorders can only take over the stations from the TV in initial installation</li> <li>d) All or some terrestrial or cable stations are stored at station slots ≥ 99</li> </ul>	<ul> <li>a) Log in the Digital Link Plus VCR under "Connections" and connect according to the diagram.</li> <li>b) Change the Euro-AV cable</li> <li>c) Reinstate the original state (ex-factory) of the VCR (see operating instructions of the VCR)</li> <li>d) Sort the terrestrial and cable stations so that they are between 1 and 99.</li> </ul>
Various characters are displayed incorrectly in teletext	The wrong character set is set in the teletext menu	Set the right character set: Teletext menu - Settings - Character set - Standard or the appropriate character set.

## **Technical data**

Spheros 42 HD/DR+, display and signal box	•	D / DNC adjustable	Connections (signal box	•
Article no. 63479	Tuner VHF/UHF/ cable		IEC socket 75 Ohm	Antenna / cable / PIP
	` )1	2 MHz to 860 MHz	FUDO AVA	
Spheros desk unit	Station slot memory	220	EURO-AV 1:	///C /C ////C / II; 0)
Dimensions (cm) 114.5 x 85.6 x 16.5 (W x H x D)	with DVB decoder	1470	Video IN	Y/C (S-VHS / Hi 8)
Mass (kg) 68	TV standards	DAL DIC DAL DIV	Video OUT	(VHS / 8 mm)
Caharas Stand unit cal	TV Standards	PAL-B/G, PAL-D/K,	video OOT	Y/C (S-VHS / Hi 8) CVBS (VHS / 8 mm)
Spheros Stand unit cpl.  Dimensions (cm) 114.5 x 122 x 46 (W x H x D)		PAL-I, PAL-L PAL M/N, PAL 60	Audio	IN/OUT L / R
Mass (kg) 91.5		Secam B/G, D/K, L	Audio	IIV/OUT L / K
iviass (kg)		NTSC / NTSCV	EURO-AV 2:	
Spheros Wall unit	Teletext	Hi-Text (Level 2.5)	Video IN	Y/C (SVHS / Hi 8)
Dimensions (cm) 114.5 x 84 x 19 (W x H x D)	reletext	THE TEXT (LECTER 2.5)	VIGCO IIV	CVBS (VHS / 8 mm)
Mass (kg) 59.5	Sound norms mo	ono/stereo/2-sound		RGB
Mass (kg) 55.5	Souria norms	Nicam B/G, L, I	Video OUT	Y/C (SVHS / Hi 8)
Display technology plasma	Multi channel (optional)	Dolby Digital/PCM/		lly for S-VHS Link Plus)
Image format 16:9	man chame (optional)	MPEG	(0.	CVBS (VHS / 8 mm)
Image diagonal Visible 106 cm			Audio IN/OUT	L/R
Pixel format 1024 x 1024	Rated audio power 2	x 20 Watt / 4 Ohm		
Contrast ratio 1000:1	-	x 40 Watt / 4 Ohm	EURO-AV 3:	
Angle of viewing greater than 160°	Speakers	2 closed boxes	Video IN	Y/C (S-VHS / Hi 8
Relative atmospheric humidity 20 80%	High frequencies Ø	50 mm Bellmouth		CVBS (VHS / 8 mm)
no condensation	Bass	Ø 104 mm		RGB / YUV
Atmospheric pressure 800 1114 HPa	For stand unit: Subwoofer am	nplifier	Video OUT	CVBS
(0 2000 m NN)	Rated audio output	40 Watt / 8 Ohm	Audio OUT	L/R
Ambient temperature $0^{\circ} - 40^{\circ}$ Celsius	Speakers	Ø 200 mm		
		_	Component IN:	
Spheros Signal Box	Connections (signal box - 1		Cinch	Y signal
Dimensions (cm) 43.0 x 12.0 x 45.5 (W x H x D)		I (AVS) S-VHS / Hi 8	Cinch	Cr/Pr signal
Mass (kg) 9.5	,	AVS) VHS / 8 mm	Cinch	Cb/Pb signal
	Cinch Audio IN	L / R	2Ciml.   / D	ALIDIO OLIT
Signal box Protection class 2	Jack 6.3 mm headphon	es 32-200 Ohm	2xCinch L / R 2xCinch L / R	AUDIO OUT
Chassis name S 2550			Jack socket 3.5 mm	AUDIO IN 1
Power supply 120 V to 240 V / 50-60Hz			2xCinch L / R	AUDIO IN 2 AUDIO IN 3
Power consumption In operation up to 315 Watt Standby < 3 Watt			Cinch input socket IN 1	Digital sound
Stalluby < 3 Watt			Cinch input socket IN 2	Digital sound
			Cinch output socket OUT	Digital sound
			SYSTEM-Bush, 9 poles	AUDIO
			Infrared link	Jack socket 3.5 mm
			RC5/RC6	Jack socket 2.5 mm
			Service-socket	8-pin
			Connection DVI	Digital input
			Input-VGA	15-pin Sub-D

## **Available accessories**

## **Upgrade kits**

#### Digital-TV upgrade kit 2 Twin-Sat CI (P)

for digital and analog satellite reception with maximum comfort in operation and latest technology which are totally integrated in the TV.

#### OnlinePlus upgrade kit

Fully integratable module for comfortable use of Internet, E-mail etc. with the TV.

#### Sound-System Concertos Concertos 2

Exclusive 5.1 Digital-Surround Sound System. The center channel is reproduced by the integrated loudspeakers of the Spheros.

#### Certos

DVD/CD player with radio and Dolby Digital/dts-decoder in unusual design.

#### Dolby Digital (AC3)

For decoding audio signals from the DVD player, TV set or other audio equipment to a 5.1 playback with active speakers.

#### **Wireless Home Automation**

For controlling the house lighting circuit, shutters etc.

#### **Accessories**

#### Loewe remote control RC1

This remote control operates almost all Loewe equipment of past and present generations and also has an infrared database for operating equipment from other manufacturers.

## System cables from signal box to plasma display

CA/7 M (7 Meter) or CA/10 M (10 Meter).

#### Racks

#### Spheros Rack 1

Mechanically rotatable rack system with two adjustable video shelves for video recorders or DVD players.

#### System Cube 1/2

Rack system with Motor Unit for rotating the TV set and shelves for VCR, DVD player etc. (in connection with the Spheros 42 HD Cube Adapter).

#### Spheros 42 HD Cube Adapter

Adapter for mounting the unit on the System Cube 1/2 rack systems.

#### Spheros 42 HD Wallmount

The flat screen can be fixed to the wall with the wall mount and tilted up to 12°.

#### Spheros 42 HD Motor Table Stand

Motorized table stand which can be operated with the remote control.

The code only and please safe place.

## Service Adressen/addresses/adresses/indirizzi/direcciones/adresy

#### Australia

International Dynamics Australasia Pty Ltd. 129 Palmer Street AUS - Richmond, Victoria 3121 Tel. 03–94 29 08 22 Fax 03–94 29 08 33

#### Benelux

Loewe Opta Benelux NV/SA Uilenbaan 84 B–2160 Antwerpen Tel. 0902–88 00 2 Fax 030–280 33 27

Loewe Opta Nederland B.V. Ravenswade, 54A1 NL–3439 LD Nieuwegein (Utrecht) Tel. 0900–280 33 27 Fax 030–803 327

#### Česká republika

TIPA sdruzení Dolní nám. 9 CZ–25069 Klicany/Pruha CZ–746 01 Opava 1 Tel: 0653-62 49 44 Fax: 0653-62 31 47

#### **GUS**

Service Center Loewe ul. Verkhnyaya Maslovka, d. 29 RUS–125083 Moscow Tel. 095–212 50 43, 956 67 64 Fax 095–212 47 10

#### Cyprus

Pangratis Liveras & Son Ltd P.O. Box 3426 Liveras Building 7 Ajax Street Saint Omologite CY–Nicosia Tel. 02–42 05 10 Fax 02–42 87 70, 42 06 53

#### Denmarl

Turku TV Operations Ltd. Denmark Roskildevej 342 G DK–2630 Taastrup Tel. 43 59 77 77 Fax 43 59 77 00

#### Deutschland

Loewe Opta GmbH CustomerCareCenter Industriestraße 11 D–96317 Kronach Tel. 01801–22 25 63 93 Fax 09261–99 500

#### España

Gaplasa S.A. Conde de Torroja, 25 E–28022 Madrid Tel. 91–748 29 60 Fax 91–329 16 75

#### France

Sorep Import S.A. 11 rue de la Durance F–67029 Strasbourg Cédex 1 Tel. 03–88 79 72 50 Fax 03–88 79 72 59

#### **Great Britain**

Linn Products Limited PO Box 8465 Prestwick UK – KA 7 2YF Tel. 01292–47 15 52 Fax 01292–47 15 54

#### Hellas

SOUND HELLAS S.A. Kleanthous Str. 10 GR–54642 Thessaloniki Tel. 031–856 100 Fax 031–856 300

#### Helvetia

Telion AG Rütistrasse 26 CH-8952 Schlieren Tel. 01–732 15 11 Fax 01–730 15 02

#### Italia

General Trading Trust SpA Via Vittorio Emanuele, 33 I–50041 Calenzano (FI) Tel. 055–88 11 71 Fax 055–88 11 740

#### Magyarország

Basys Magyarorszagi KFT Epitokutja 2-4 H–2040 Budaörs Tel. 023–415 637-121 Fax 023–415 182

#### Norge

CableCom AS Østre Kullerød 5 N–3214 Sandefjord Tel. 033–48 33 48 Fax 033–44 60 44

#### Malta

Mirage Holdings Ltd Flamingo Complex Cannon Road M-Qormi Tel. 49 71 82 Fax 44 59 83

#### Österreich

Robert Bosch AG Postfach 146 A–1011 Wien Tel 01–79 72 24 500 Fax 01–79 72 24 599

#### Polsko

Piotech ul. Boh. Getta Warszawskiego 18 PL–81-609 Gdynia Tel. 058 62 43 467 Fax 58 62 45 009

#### **Portugal**

Videoacustica
Comercio e Representacoes de
Equipamentos Electronicos S.A.
Estrada Circunvalacao
Quinto do Paizinho, arm. 5
P–2795-632 Camaxide
Tel. 21–42 41 770
Fax 21–88 0 93

#### Sverige

Canseda AB Amalia Jönssons Gata 19 S–42131 Västra Frölunda Tel. 031–70 93 760 Fax 031–47 65 15

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Jadran Trgovsko Podjetje Partizanska cesta 69 SL–6210 Sezana Tel. 067–391 402 Fax 067–391 400

#### Turkey

Enkay Elektronik Servis Müdürlügü Ambarlar Cad: No: 3/C Zeytynburmu / Istanbul Tel. 0212–582 36 69 Fax 0212–671 80 39

> Printed in Germany 10/2004 Subject to modification

## **Codelist**

Cou	CIIJ																	
Loewe							Daewoo			0770	0705	0714	HCM					0788
DVD-Play	/er					0539	Daewoo Interr	national				0699	HDT					0705
DVD-Rec	order					0741	Dansai				0770	0783	HE					0730
STB						1127	Dantax					0723	Henß					0713
VCR						0866	DEC				0699	0818	Hitachi			0664	0665	
							Decca					0770	Hiteker					0672
DVD							Denon				0490	0634	Home Electronic	·s				0730
3DLAB						0539	Denver					0788	Hyundai	.5				0783
A-Trend						0714	Denzel				0033	0665	Ingelen					0788
Acoustic	Solutio	nc				0730	Diamond			0651	0768		ISP					0695
AEG	Jointio	113			0788	0770	Digihome			0051	0700	0723	Jeken					0699
Aiwa						0695	digiRED					0717	JMB					0695
Akai	0700	0700	0690	0716			Digitrex					0672	JVC	0622	0539	0502	1001	
AKI	0790	0700	0090	0/10	0/13	0703	Digitiex					0831	Karcher	0023	0333	0303	1301	0783
Akira						0699	Dinamic					0788	Kendo					0699
		0717	0600	0712	0722		DiViDo					0705				0E24	0490	
Alba		0/1/	0699	0/13	0/23							0831	Kenwood Kiiro			0554		0737
All-Tel						0790	DK digital				0702						0/18	
Amitech						0770	DMTECH				0/83	0790	Kingavon					0818
Amstrad						0713	Dragon	F 06F4	0743	0720	0700	0831	Kiss					0665
Apex Dig						0672	Dual 066	5 0651	0/13	0/30	0/83		Koda					0818
Audioson	iic					0690						0831	Koss					0651
AWA						0730	E-Boda					0723	Lawson			0705	0716	
Black Dia						0713	Eclipse					0723	Lecson					0696
Blaupunk	ct					0717	Electrohome					0770	Lenco		0699	0651	0770	
Blue Sky		0699	0695	0713	0672		Elin					0770	Lenoxx					0690
Boman						0783	Elta		0690	0770			Lexia					0699
Brain Wa	ve					0770	Emerson				0591	0705	LG			0591	0741	
Brandt						0551	Enzer					0665	Lifetec					0651
Bush	0699	0690	0689				Ferguson					0651	Limit					0768
				0695	0831		Finlux			0741	0770		Loewe				0539	1922
C-Tech						0768	Firstline					0651	LogicLab					0768
Cambridg	ge Audi	0				0696	Funai					0695	Logix				0705	0783
Cambridg	ge Soun	dwork	(S			0696	GE					0717	Lumatron					0705
CAT						0699	Global Solutio	ns				0768	Luxman					0573
Celestial						0672	Global Sphere					0768	Luxor					1004
Centrex					0672	1004	Go Video					0783	Magnavox				0503	0818
Centrum						0713	GoldStar					0741	Magnex					0723
cineULTR	Α					0699	Goodmans	0651	1004	0790	0690	0783	Manhattan					0705
Classic						0730					0723	0818	Marantz					0539
Clatronic						0788	Graetz					0665	Mark					0713
Clayton						0713	Grandin					0716	Matsui				0651	0695
Coby						0730	Grundig 053	9 0695	0651	0775	0705		MBO					0730
Conia						0672	3				0670		MDS					0699
Crown				0770	0651		Grunkel					0770	Medion		0651	0783	0716	
Cybercon	n					0831	H&B				0818	0713	Memorex		- '		_	0831
CyberHor					0714	0816	Haaz					0768	Metz				0571	0713
Cytron				0716	0651		Hanseatic					0741	MiCO					0723
Cytion				37.10	3031	0,03	· idiləcutic					J,						3,23

Minnels			0710	Detail					0622	T. L		0005	0700
Microboss			0718	Rotel					0623	Tokai		0665	
Micromaxx		0500	0695	Rowa					1004	Tokiwa		0/05	0716
Micromedia		0503	0539	Saba					0651	Toshiba			0503
Micromega			0539	Sabaki					0768	Umax			0690
Microsoft			0522	Salora					0741	United		0730	
Microstar			0831	Samsung					0490	Universum	0741	0713	
Minax			0713	Sansui	0695	0716				Venturer			0790
Minoka			0770	Sanyo			0670	0695	0790	Vieta			0705
Mitsubishi			0713	Scan					0705	Voxson		0730	0831
Mizuda			0818	ScanMagic					0730	Walkvision			0717
Monyka			0665	Schaub Lorenz				0788	0770	Welkin			0831
Mustek			0730	Schneider	0651	0783	0705			Wesder			0699
Mx Onda		0651	0723	Scientific Labs					0768	Wharfedale		0696	
NAD		0051	0741	Scott			0718	0651		Windy Sam		0030	0573
Naiko			0770	SEG				0713		XBox			0522
Neufunk			0665	Shanghai			0005	0/13	0672	XLogic		0770	
				•				0630		9			
Nordmende		0000	0831	Sharp			0747		0695	XMS		0788	
Omni			0699	Sherwood			0/1/	0741		Yamada	0.400	0530	1004
Onkyo		0627	0503	Shinco					0717	Yamaha		0539	
Optimus			0571	Silva					0788	Yamakawa	0665	0710	
Orava			0818	SilvaSchneider					0831	Yelo			0718
Orion			0695	Singer			0690	0716		Yukai			0730
Oritron			0651	Skymaster				0730	0768	Zenith	0503	0591	0741
P&B			0818	Slim Art					0770				
Pacific	0768 0790	0713	0831	SM Electronic			0730	0768	0690				
Palladium			0695	Smart			0718	0705	0713				
Palsonic		0689	0672	Sonashi					0716				
Panasonic		0490	1908	Sony		0533	0573	1903	1904				
Panda		0.50	0783	Soundmaster		0000			0768				
Philips	0539 0646	0503		Soundmax					0768				
Phonotrend	0333 0040	0303	0699	Soundwave					0783				
Pioneer	0571 0631	1000		Standard				0651	0768				
Pointer	03/1 0031	1300	0770	Starmedia				0051	0708				
Powerpoint	0654 0673	0700	0718	Sunwood				0720	0788				
Proline	0651 0672	0/90		Supervision				0/30	0768				
Proscan			0522	SVA					0672				
Prosonic			0699	Synn					0768				
Provision			0699	Tandberg					0713				
Radionette			0741	Tatung					0770				
Raite			0665	Teac 0717	0741	0571	0768	0591	0790				
Rank Arena			0718	Technics				0490	1908				
RCA		0522	0651	Technika					0770				
REC		0689	0490	Techwood					0713				
Red Star			0788	Tensai				0690	0651				
Reoc			0768	Tevion					0768				
Revoy			0699	Theta Digital				,,,,,	0571				
Roadstar	0699 0690 0689	0713		Thomson				0551	0522				
เบลนรเลเ	0033 0030 0003	0/13	0010	11101113011				ادده	UJZZ				

VCR							Dansai					0072	0278	Hanseati	ic	0037	0209	0278	0081	0038
Adyson						0072	Daytron						0278	Harwood	d					0072
Aiwa	0307	0000	0209	0348	0352	0037	de Graaf			0042	0081	0104	0048	HCM						0072
						0041	Decca	0000	0041	0081	0067	0348	0209	Hinari	0072	0209	0352	0041	0278	0240
Akai		0106	0315	0041	0352	0240	Deitron						0278	Hisawa					0209	0352
Akashi						0072	Denko						0072	Hischito						0045
Akiba						0072	Diamant						0037	Hitachi	0042	0041	0000	0240	0081	0104
Akura					0072	0041	Domland						0209							0384
Alba	0278	0072	0209	0352	0000	0315	Dual			0041	0081	0278	0000	Hornyph	one					0081
					0348	0081	Dumont				0000	0081	0104	Hypson			0072	0209	0278	0352
Allorgan						0240	Elbe					0278	0038	Imperial					0000	0240
Allstar						0081	Elcatech						0072	Ingersoll					0209	0240
Amstrad				0000	0278	0072	Elin						0240	Inno Hit				0240	0278	0072
Anitech						0072	Elsay						0072	Interbuy					0037	0072
Ansonic						0000	Elta					0072	0278	Interfunk	(				0081	0104
Aristona						0081	Emerson				0072	0045	0000	Internal						0278
ASA					0037	0081	ESC					0278	0240	Internati	onal				0278	0037
Asuka		0072	0037	0081	0000	0038	Etzuko						0072	Intervisio	on	0000	0278	0037	0209	0348
Audioson	iic					0278	Fast						0897	Irradio				0072	0037	0081
AVP					0352	0000	Ferguson			0041	0320	0000	0278	ITT		0106	0041	0384	0104	0240
AWA			0037	0278	0642	0043	Fidelity				0000	0072	0240	ITT Nokia	a					0048
Baird		0106	0278	0104	0041	0000	Finlandia	0104	0081	0042	0000	0048	0384	ITV					0278	0037
Basic Line	е			0278	0209	0072	Finlux			0000	0081	0104	0042	JMB					0209	0352
Bestar						0278	Firstline	0072	0209	0348	0043	0037	0045	Joyce						0000
Black Dia	mond				0642	0278						0042	0278	JVC				0041	0067	0384
Black Pan	nther					0278	Fisher				0047	0104	0038	Kaisui						0072
Blaupunk	ct			1562	0226	0081	Flint						0209	Kambroo	ok					0037
Blue Sky	0037	0209	0348	0072	0352	0278	Frontech						0072	Karcher						0278
						0000	Fujitsu						0000	Kendo	0106	0209	0315	0348	0072	0037
Bondstec						0072	Funai						0000	Kenwood	d				0041	0038
Brandt					0041	0320	Galaxi						0000	KIC						0000
Brandt El	ectroni	que				0041	Galaxis						0278	Kimari						0047
Brinkman	ın				0209	0348	GE						0320	Kneissel			0352	0209	0348	0037
Bush	0072	0278	0315	0209	0352	0000	GEC						0081	Kolster					0209	0348
						0081	General 1	Technic					0348	Korpel						0072
Carena					0209	0081	Genexxa						0104	Kuba						0047
Carrefour	ſ					0045	Goldhan						0072	Kuba Ele	ctronic					0047
Casio						0000	GoldStar						0000	Kuwa						0226
Cathay						0278	Goodmai	ns	0000	0072	0240	0278	0037	Kyoto						0072
CGE						0000			0081	0348		0352		Lenco						0278
Cimline					0072	0209	Graetz				0041	0104	0240	Leyco						0072
Clatronic					0072	0000	Granada	0104	0048	0081	0240			LG				0037		0278
Combited	:h					0352							0000	Lifetec						0348
Condor						0278	Grandin					0278		Loewe		0081	1562			
Crown					0278	0072	Grundig	0081	0347	0226	0320	0348		Logik			0240	0072	0106	
Cyrus						0081	Haaz					0348	0209	Lumatro						0278
Daewoo	0278	0642	0209	0348	0352	0045	Hanimex						0352	Luxor	0106	0043	0072	0104	0047	0048

Magnayov					0081	Dhiling				0001	0384	Silva						0037
Magnavox Manesth		0072	0045	0081		Philips Phoenix				0081	0384	Silva						0037
		0072																
Marantz			1800	0038		Phonola			0067	0004	0081	Singer					0004	0045
Mark					0278	Pioneer			0067	0081		Sinudyne					0081	0209
	0348	0037	0240	0352		Portland					0278	Smaragd						0348
Mediator					0081	Prinz					0000	Sonitron						0047
Medion				0348		Profitronic				0081		Sonneclair						0072
Melectronic			0000	0037	0038	Proline				0000	0320	Sonoko						0278
Memorex	0104	0000	0037	0048	0047	Prosco					0278	Sonolor						0048
Memphis					0072	Prosonic			0209	0278	0000	Sontec					0037	0278
Metz	1562	0347	0081	0226	0037	Protech					0081	Sony					0032	0106
Micormay					0348	Provision					0278	Soundwave				0037	0209	0348
Micromaxx					0209	Pye					0081	Ssangyong						0072
Migros					0000	Quasar					0278	Standard						0278
Mitsubishi			00/13	0067		Quelle					0081	Starlite					0037	0104
Multitec			0045	0007	0037	Radialva		0027	0072	0001		Stern					0037	0278
Multitech			0000	0072		Radiola		0037	0072	0001	0048	Sunkai				0200	0348	
			0000	0072							0081					0209	0348	
Murphy					0000	Rank			0200	0240		Sunstar						0000
Myryad					0081	Reoc			0209	0348		Suntronic						0000
NAD					0104	Rex				0041	0384	Sunwood						0072
National					0226	RFT					0072	Supra						0240
NEC	0041	0038	0067			Roadstar		0240	0072	0037		Symphonic					0000	0072
Neckermann				0041	0081	Royal					0072	T+A						0226
Nesco			0072	0000	0352	Saba		0041	0320	0384	0278	Taisho						0209
Neufunk					0209	Saisho				0209	0348	Tandberg						0278
Nikkai				0072	0278	Salora			0043	0106	0104	Tashiko		0000	0048	0240	0081	0037
Nokia 0104	0106	0315	0041	0278	0240	Samsung				0240	0432	Tatung 0	000	0041	0081	0048	0043	0209
				0042		Sansui	0041	0067	0106	0072	0348	3						0352
Nordmende		0041		0320		Sanyo			0047			Teac 0	072	0041	0000	0278		
NU-TEC		0011	0501		0348	Saville		0.0.		0278		icae 0	0,2	0011	0000	0270		0307
	00/18	0106	0021			SBR			0332	0270	0081	TEC						0072
Okano		0209				Scan Sonic					0240	Tech Line					0270	0072
Orbit	0313	0209	0340	0072	0278	Schaub Lorenz	0041	0104	0000	0106		TechniSat					0240	0209
			0200	0252													0348	
Orion			0209	0352		Schneider 0072	0000	0037	1800			Teleavia			0044		0004	0041
Orson					0000					0042	0897	Telefunken			0041		0384	
Osaki			0000	0037		Seaway					0278	Teletech				0072	0278	
Osume					0072	SEG	0072	0240	0278	0642		Tenosal						0072
Otake					0209	SEI					0081	Tensai				0000	0037	0072
Otto Versand					0081	Sei-Sinudyne					0081	Tevion					0348	0209
Palladium	0072	0315	0037	0041	0209	Seleco			0041	0384	0037	Thomson		0320	0041	0067	0384	0278
			0240	0348	0432	Sentra					0072	Thorn				0041	0104	0037
Palsonic				0072	0000	Setron					0072	Thorn-Fergi	ıson					0320
Panasonic					0226	Sharp			0048	0037		Tokai			0072	0037	0041	
Pathe Cinema				. 502	0043	Shintom			5540		0104	Tokiwa			00,2	0001	00-11	0072
Pathe Marconi					0043	Shivaki				0012	0037	Topline						0348
				0000			דכחח	0104	0001	0220				0045	0044	0204	0042	
Perdio					0209	Siemens	0037	0104	υυδΙ	0320		Toshiba		0045	004 I	U384	0043	
Philco				0038	0072	Siera					0081	Towada						0072

<b>T</b> 1					0270	Aul					0000	D' 0550 0740
Tredex					0278	Athena					0668	Discovery 0668 0710
Uher				0037	0240	Atlanta					0871	Diseqc 0710
Ultravox					0278	Aurora					0879	Distratel 0084 0885 1205
Unitech					0240	Austar	0863	0642	0497	0879	1176	Distrisat 0200
United Quick Sta	ar				0278	Avalon					0396	DMT 1075
•		0081	0240	0037		Axiel				0668		DNT 0200 0396
Olliversulli	0000	0001										
			0348	0209		Axis				1111		DREAM multimedia.TV 1237
Victor					0067	Beko					0455	DStv 0642 0879
Watson		0081	0352	0278	0642	Bentley Walker					1017	Echostar 0610 1169 0871 0167 0853 1086
Weltblick					0037	Blaupunkt					0173	1200 0454 0396 0713 0668 0511 0453
Yamaha					0041	Blue Sky				0713		Einhell 0132 0713 0501
Yamishi				0072	0278	Boca				0132		Elap 0713 1129 0668 0710
				0072					0122			
Yokan					0072	Boston			0132	0710		Elsat 0713
Yoko			0037	0072		Broco					0713	Elta 0200
ZX					0209	BskyB				0847	1175	Emme Esse 0871
						BT				0668	0710	Engel 1017 0713
SAT (STB)						Bubu Sat					0713	EP Sat 0455
@sat					1300	Cambridge					0501	Eurieult 0084 0885 0882
		0660	0433	4222		•						
ABsat		0668	0123	1323		Canal Satellite					0853	Eurocrypt 0455
ADB					0642	Canal+					0853	Europa 0863 0607 0501 0200
Adcom					0200	Cherokee			0123	0710	1323	Europhon 0299 0607
AGS				0668	0710	Chess		0157	0605	0713	1085	Eurosky 0607 0132 0299 0115 0114 0501
Akai					0200	CityCom				0607		Eurostar 0607 0115
Akena					0668	•		1170	0113		0396	Fenner 0668 0157 0605 0713
				0.455		Clemens Kamph	us			0034		
Alba					0713	Cobra					0396	Ferguson 0455
Allsat			0200	1017		Colombia				0668		Fidelity 0501
Alltech					0713	Columbia					0132	Finlandia 0455
Alpha				0668	0200	Columbus					0668	Finlux 0573 0455
Altai					0396	Comag					0132	Flair Mate 0713
Amitronica					0713	Condor					0607	Force 1101
				0206								
Ampere					0132	Connexions					0396	Fortec Star 1017 1083
Amstrad 0847						Conrad		0607	0573	0115		Foxtel 0879 0720 0455 0497 0795 1176
	0885	0863	0501	0795	1113	Conrad Electron	ic			0607	0713	Fracarro 0871 0668
Anglo					0713	Cryptovision				0455	0795	Freecom 0501 0173
Ankaro					0713	Cyrus					0200	Freesat 0882
AntSat				1017	1083	D-box			1127	1114		FTEmaximal 0713 0863
				1017					1127	1114		
Apollo					0455	Daeryung					0396	Fuba 0396 0173 0573 0115 0299
Arcon	1205	1043	0834	0132		Daewoo				1296		Fugionkyo 1105
Armstrong					0200	Delfa					0863	Galaxis 1111 1101 0834 0863 1176 0853
Asat					0200	Deltasat					1075	0115 0879
ASLF					0713	DGTEC					1242	Garnet 1075
AssCom					0853						1294	GF 0834 1043
				0000		Digatron						
Astacom				0668	0710	Digenius					0299	GF Star 1043
Aston					1129	Digiality					0607	GOD Digital 0200
Astra				0607	0713	Digipro					1105	Goldbox 0853
Astro 0133	0173	0501	0658	0607	1113	DigiQuest					0863	Goldvision 1017
				1100		Discoverer				0605		Gooding 0571
			1033	1100	0200	DISCORCICI				0000	0137	dooding 05/1

Goodmans	1284 0455	Labgear			1296	OctalTV					1294
Gradiente	0887	LaSAT 060	7 0115	0132 0157	7 0299	Okano					0668
Granada	0455	Lenco		0713 0115	0607	OnDigital	0751	0329	0241	0867	0133
Grandin	0084	Lenson			0501	Optex					0834
Grundig 0173 0847 1150 1291	1435 0571	Lexus			0200	Optus				0879	0853
0750 0879 0885 0853 0501		LG			1075	Orbitech	1099	1100	0200	0501	0157
	1099 1100	Lifesat	0605	0299 1043		Origo					0497
Hänsel & Gretel	0132 0607	Logix	0003		7 1075	Ouralis					1205
Hauppauge	1294	-	9 1294	0607 0742		Oxford					0668
HDT	1011	Luxor	J 1234		3 0501		0847	<b>0887</b>	1175	0241	
Heliocom	0607	M&B1		037.	0605	0123 1323					
Helium	0607	Manata		0710 0668		0125 1525	0751		0853		
Hirschmann 0396 0882 1113		Manhattan1083 045	55 0710			Packsat			0033	0710	0710
0573 1085 0299 0501 0710		Marantz	0000	0000 003	0200	Palcom					0299
Hitachi	0455	Maspro	0750	0713 0173		Palladium				0571	
HNE	0742 0132	Matsui	0730	0571 0710		Palsat				03/1	0501
Houston	0668 0396	Max		03/1 0/10	0607	Panasat				0879	
Humax	1176 0863	MB			0605	Panasonic		0017	1104		
	1017 1075	Mediabox			0853	Panda			0607		
								0455	0007	01/3	0668
•	1159 1075 1176 0863	Mediacom MediaSat		UEU.	1206 0853	Patriot	1114	U0E 2	0455	0750	
ID Digital	0084	Medion		0713 0299		Philips 0200	0668				
Imex	0396 0882			0/13 029	0713	Dhanatrand	0000				
Ingelen		Medison				Phonotrend			0863		
International	0132	Mega	2 4245	0004 0001	0200	Pioneer			0329		
Interstar	1105 1017		3 1215	0084 0885		Planet				0871	
Intervision	0628 0607	Metz		0007 000	0173	Polytron					0396
Invideo	0871	Micro		0607 050		Praxis		0433	0206	4404	0511
IRTE	0609	Micro electronic			0713	Preisner			0396		
Italtel	0871	Micro Technology			0713	Premiere 0853					
	0455 0723	Micromaxx			0299	ъ.	1195	1100	0249	0658	
JOK	0710	Microtec			0713	Primacom					1111
JVC	0571	Minerva			0571	Profile				0668	
K-SAT	0713	Mitsubishi			0455	Promax					0455
Kamm	0713	Morgan's		0200 0713		Prosat					0628
Kaon	1300	Motorola		0.5.4	0856	Prosonic					0742
KaTelco	1111	Multichoice		0642	0879	Pye					0571
Kathrein 0658 0249 1057 0173		Multitec			0157	Pyxis					0834
0713 0668 0742 0123 0115		Myryad			0200	Quadral		0628	0668		
Kathrein Eurostar	0115	Mysat			0713	Quelle			0607	0742	
Kiton	0114	Netgem			1322	Radiola					0200
Klap	0668 0710	Neuhaus	0501	0713 0834		Radix			0396	1113	
Konig	0607	Neusat			8 0834	RFT					0200
Koscom	0834 1043	Nikko		0713 0723		Roadstar					0713
3	0249 0114			1127 0723		Rover				0628	
Kreiselmeyer	0173		3 0455	1723 1310		Saba		0710	0885	0115	
Kyostar	0132	Nordmende			0455	Sabre					0455
L&S Electronic	1043	Nova			0879	Sagem			0820	1114	1253

Samsung 0863	1243	1343	0853			Telasat				0605	0115		Cable Box (STB)		
				1293	1292	Teleciel						1043	Austar		0276
SAT					0501	Telecom						0713	BT		0003
Sat Control					1300	Telefunker	1					0710	Canal Plus		0443
Sat Partner					0501	Teleka		0396	0750	0501	0607		Comcrypt		0443
Sat Team					0713	Telesat						0607	Decsat		0423
Satcom					0607		0501	1099	1100	0114	0200		Filmnet		0443
Satec				0713	0834	Teletech						0114	France Telecom		0817
Satline					0628	Televes					0501		General Instruments		0276
Satstation					1083	Thomson	0455	0713	0853	0115	0607	1291	Jerrold	0003	0276
Schneider		0710	0668	0157	1206				0820	0668	0710	1046	Kabelvision		0003
Schwaiger	0605	0157	0607	0885	1111	Thorn						0455	Macab		0817
				0132	1075	Tokai						0200	Melita		0003
SCS				0115	0299	Tonna		0455	0668	0501	0713	0834	MNet		0443
Seemann					0396	Topfield						1206	Mr Zapp		0817
SEG		0605	0742	0114	1087	Toshiba						0455	Noos		0817
Seleco					0871	TPS					0820	1253	NTL Cabletell		0276
Septimo				1205	0885	Triasat						0501	Ono		1068
Siemens					0173	Triax	0501	0115	0200	0396	0713		Optus	0276	
Skantin					0713						1291		Pace	1068	
Skinsat					0501	Turnsat						0713	Philips	0817	
SKR					0713	Twinner					0132	0713	PVP Stereo Visual		0003
Sky		0847	0856	0887		UEC						0879	Sagem		0817
SKY+					1175	Uher						0157	Tele+1		0443
Skymaster0713	0605	0157	1200	1085		Unisat						0200	Telepiu		0443
0628						Universum	า	0173	0571	0607	0299		Tudi		0286
Skymax					0200							1087	United Cable		0003
SkySat			0157	0605		Van Hune	n					0299	Visiopass		0817
SL					0742	Variosat						0173			
SM Electronic	0157	0713	1200			Ventana						0200			
		1101				Vestel						0742			
					0713	VH-Sat						0299			
Sony		0282	0847			Viasat				1323	1023				
SR		0202			0132	Visionic						1105			
Starland					0713	Visiosat					0710	0713			
Strong	0879	0853	1105	1159		Wetekom				0157	0605				
Sunsat	00.5				0713	Wewa				0.07		0455			
Sunstar					0132	Wisi	0173	0396	0299	0455	0501				
Tantec					0455	**151	0173	0330	0233	0 133	0501	0834			
Tatung					0455	Worldsat			0710	0114	0123				
Teac					1322	XCOM			0710	0111		0668			
Tecatel					1200	XSat				0668	0713				
TechniSat 0200	1099	1100	1195	0501		Xtreme				0000	0,13	1300			
Technosat	1000	1100	1133	0301	1206	YES						0887			
Technowelt				0607	0885	Zehnder		1075	0742	0114	0115				
Techsan				0007	1017	Zenith		10/3	5742	0114	0113	0856			
Techwood					0114	Zeta Techr	nology					0200			
16CHWOOG					0114	Zinwell	lology					1176			
						LIIIVVCII						11/0			

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